



CHICAGO STATE UNIVERSITY

City Colleges of Chicago Transfer Guide

BS in Chemistry: Biochemistry Option

Chicago State University has a longstanding mission to provide a diverse group of students with access to quality higher education. This access prepares students to meet their educational goals and make meaningful contributions to their communities. Chicago State University's current mission documents reaffirm this distinctive goal, underscoring the institution's dedication to social justice and leadership, and declaring a new focus on community development through entrepreneurship.

Program Overview

The Department of Chemistry, Physics, and Engineering Studies offers a Bachelor of Science degree in Chemistry. The general goal of the chemistry program is to prepare students for scientific careers in industry, government, and education, as well as for advanced study in chemistry or a related discipline, such as biochemistry, medicine, forensic science, dentistry, patent law, or pharmacy. The chemistry program aids students in developing the following:

- A broad foundation in the theory, principles, and history of chemistry
- Skills in analytical reasoning and problem solving
- Necessary laboratory, safety, and literature skills
- Effective oral and written communication skills, including notebook keeping, graphing, writing laboratory reports, using computers for data analysis, and conducting research presentations
- An understanding of the impact of chemistry on industry, society, and the environment, and an appreciation of the roles and responsibilities of chemists in today's world

The Biochemistry Option serves students preparing for careers in biomedical research or for admission to medical, dental, or pharmacy school.

Highlights

- High quality teaching, a family environment, faculty engagement, and support from peer mentoring programs.
- Engagement in hands-on, minds-on, STEM Research.
- Opportunities to attend, present, and communicate science at local and national conferences – CSU students have given presentations all over the world – from Chicago to Switzerland!
- Local, national, and global internship opportunities.

Advisor Contact Information

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Articulation Crosswalk for BS in Chemistry: Biochemistry Option

Chicago City Colleges Associate in Arts (0211) AA			Chicago State University BS in Chemistry: Biochemistry (CHMB)		
Course #	Title	Credit Hours	Course #	Title	Credit Hours
ENG 101	Composition I	3	ENG 1270	Composition I	3
ENG 102	Composition II	3	ENG 1280	Composition II	3
SPEECH 101	Fundamentals of Speech Communication	3	CMAT 2030	Basic Speech Communication	3
Fine Arts	IAI Fine Arts*	3	Fine Arts	IAI Fine Arts	3
Humanities	IAI Humanities*	3	Humanities	IAI Humanities	3
Fine Arts/ Humanities	IAI Fine Arts or Humanities	3	Fine Arts/ Humanities	IAI Fine Arts or Humanities	3
Social/Behavioral Science	IAI Social/Behavioral Science* **	3	Social/Behavioral Science	IAI Social/Behavioral Science	3
Social/Behavioral Science	IAI Social/Behavioral Science* **	3	Social/Behavioral Science	IAI Social/Behavioral Science	3
Social/Behavioral Science	IAI Social/Behavioral Science* **	3	Social/Behavioral Science	IAI Social/Behavioral Science	3
Recommended General Education Courses:					
MATH 140	College Algebra	4***	MATH 1200	College Algebra	3 (4)
BIOL 121	Biology I	5***	BIOL 1710	Introduction to Biology	4 (5)
CHEM 201	General Chemistry I	5***	CHEM 1400/1410	General Chemistry I: Lecture and Lab	4 (5)
Recommended Elective Courses:					
CHEM 203	General Chemistry II	5***	CHEM 1450/1460	General Chemistry II Lecture and Lab	4 (5)
MATH 141	Plane Trigonometry	3	MATH 1210	Trigonometry	3
MATH 207	Calculus & Analytic Geometry I	5***	MATH 1410	Calculus I	4 (5)
BIOL 122	Biology II	5***	ZOOL 2040	Biology of Animals	4 (5)
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5***	PHYS 2110	Physics I with Calculus	3 (5)
Total Credit Hours Taken at CCC		64	Total Credit Hours Transferred to CSU		64

*One course must fulfill the CCC Human Diversity (HD) requirement.

**Must include two disciplines

***Math courses and science lab courses that equal 4 or 5 credit hours at City Colleges transfer as such to CSU.

Courses required at CSU for BS in Chemistry: Biochemistry Option (CHMB)	
CSU Courses	Credit Hours
CSU College of Arts and Sciences Course:	
Foreign Language I	3
Chemistry Courses:	
CHEM 2400/2410 Organic Chemistry I Lecture and Lab	4
CHEM 2450/2460 Organic Chemistry II Lecture and Lab	4
CHEM 2600 Introduction to Chemical Laboratory Practices	1
CHEM 2800/2810 Analytic Chemistry Lecture and Lab	4
CHEM 3240 Inorganic Chemistry	3
CHEM 3600 Scientific Communications	2
CHEM 4200 Microphysical Chemistry Lecture	3
CHEM 4210 Microphysical Chemistry Lab	1
CHEM 4250 Macrophysical Physical Chemistry Lecture	3
CHEM 4303 Biochemistry I Lecture	3
CHEM 4304 Biochemistry I Lab	1
CHEM 4313 Biochemistry II	3
CHEM 4355 Senior Thesis	3
CHEM 4600/4610 Analytical Chemistry II Lecture and Lab	4
Supportive Biological Science Course:	
PSLY 2040 Human Physiology	4
Supportive Physics Course:	
PHYS 2220 General Physics II with Calculus: Electromagnetism and Optics	4
Supportive Math Course:	
MATH 1420 Calculus II	4
Elective Courses in Biology or Chemistry:	
	5
CSU Completion Credit Hours	
	59

CCC Transferred Credit Hours	64
CSU Completion Credit Hours	59
Total Degree Credit Hours	123